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Earthquake Shaking ● **Green Alert**

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ANSS

PAGER
Version 3

M 5.6, 8km NW of Casillas, Guatemala

Origin Time: 2019-11-09 08:32:52 UTC (Sat 02:32:52 local)
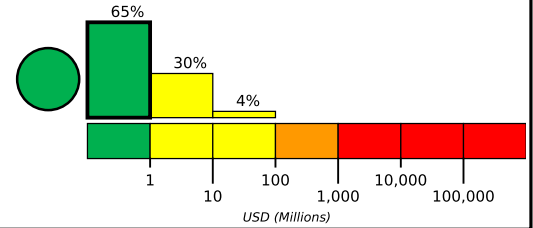Location: 14.4813° N 90.2906° W Depth: 197.5 km

Created: 2 hours, 2 minutes after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

65% | 30% | 4%

1 10 100 1,000 10,000 100,000
Fatalities

Estimated Economic Losses

65% | 30% | 4%

1 10 100 1,000 10,000 100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	11,006k*	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0 5 50 100 500 1000 5000 10000
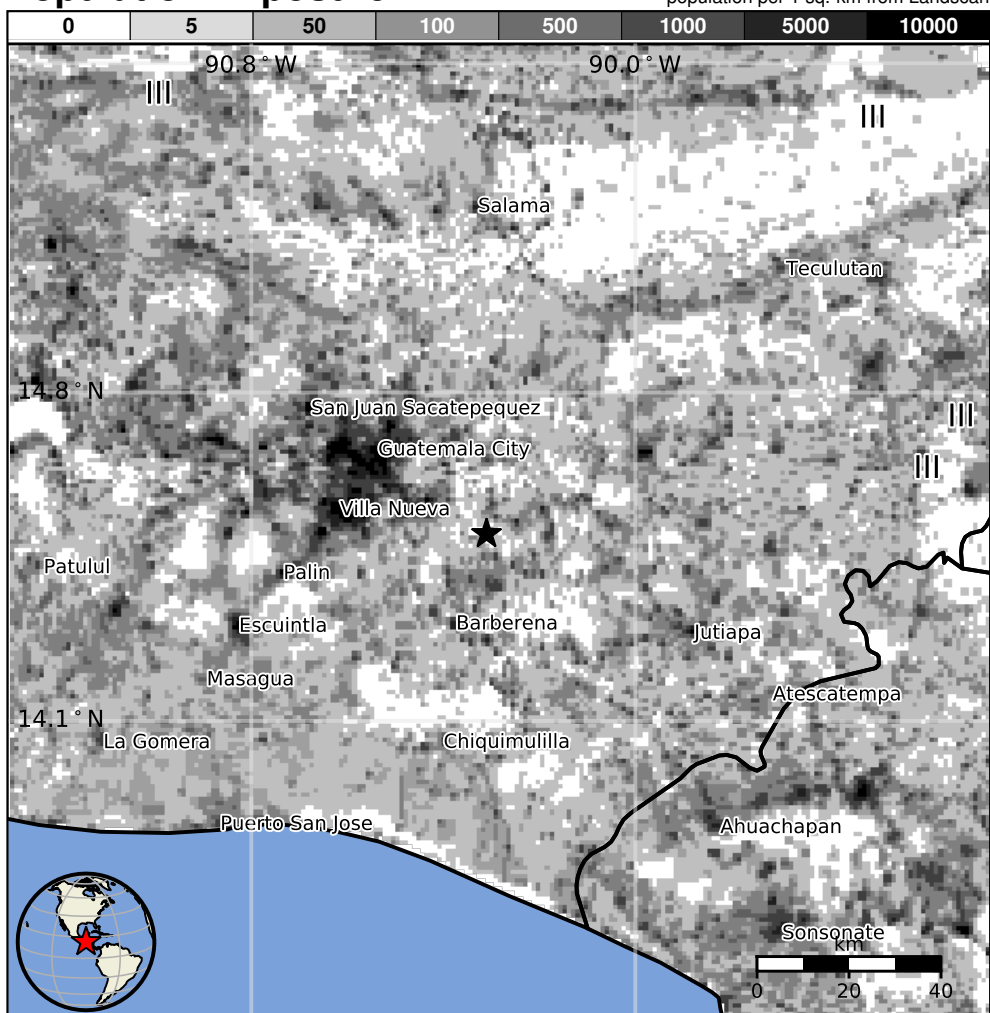
Structures

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are mud wall and informal (metal, timber, GI etc.) construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2001-02-17	149	4.1	V(2,250k)	1
1975-11-05	381	5.0	VI(21k)	1
1976-02-04	152	7.5	IX(80k)	23k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	**Guatemala City**	**995k**
III	Jalapa	46k
III	Sanarate	16k
III	El Tejar	16k
III	Antigua Guatemala	39k
III	Fraijanes	28k
III	**Escuintla**	**103k**
III	Chimaltenango	82k
III	**Sonsonate**	**59k**
III	Santa Ana	177k
III	Solola	45k

bold cities appear on map.   (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us600069n1#pager

Event ID: us600069n1